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Know Your Choices: Hundreds of SCN-resistant Soybean Varieties For Iowa

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Know Your Choices: Hundreds of SCN-resistant Soybean Varieties For Iowa

Greg Tylka, Department of Plant Pathology and Microbiology

Growing soybean varieties with resistance to the soybean cyst nematode (SCN) is an excellent way to manage this pervasive and serious soybean pest. Growers have hundreds of SCN-resistant soybean varieties from which to pick.

To help Iowa growers sort through all of the possibilities, Iowa State University Extension personnel annually compile a list of SCN-resistant soybean varieties in late maturity group 0 and maturity groups 1, 2, and 3 in ISU Extension publication [PM 1649, "Soybean cyst nematode-resistant soybean varieties for Iowa."](#) This work is supported by soybean checkoff funds from the Iowa Soybean Association.

The annual list of SCN-resistant soybean varieties has just been updated with information about varieties available for the 2012 growing season. Information in the publication is organized by maturity group and company and includes the relative maturity, herbicide resistance, iron deficiency chlorosis tolerance rating and source of SCN resistance of the varieties (see figure 1).

There are 807 varieties in the updated publication, which is only six fewer than last year's record high number of 813 varieties (see figure 2). The varieties are from 42 companies, Iowa State University and the University of Missouri. There are 151 varieties in late maturity group 0/group 1, 346 varieties in maturity group 2, and 310 varieties in maturity group 3. Almost all of the varieties possess SCN resistance from the PI88788 breeding line (also called the source of resistance). Most of the varieties are glyphosate resistant, nearly 10 percent are LibertyLink® and several varieties, including all of those from Iowa State University, have no herbicide resistance.

In total, there are 21 SCN-resistant soybean varieties listed in the publication that were developed by Iowa State University scientists, all with soybean checkoff funding from the Iowa Soybean Association. Two of the varieties contain unique sources of SCN resistance. Variety "IAR2101 SCN" (maturity group 2) has SCN resistance from PI88788 in combination with PI507354, and variety "IAR3001 Phyto SCN" (maturity group 3) has SCN resistance from PI438489B and PI90363.

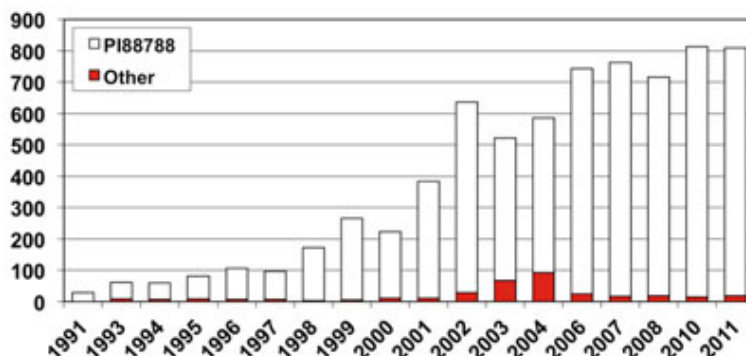
Iowa State University's management recommendations for SCN are online in a downloadable format, [Soybean Cyst Nematode \(SCN\) Management Recommendations](#), IPM 63. Additional information about the biology, scouting and management of SCN can be found at www.soybeancystnematode.info. And results of evaluation of SCN-resistant soybean varieties at numerous locations throughout Iowa can be found at www.isucntrials.info.

Greg Tylka is a professor of plant pathology with extension and research

responsibilities in management of plant-parasitic nematodes.

Table 1. Soybean cyst nematode-resistant soybean varieties for late maturity group 0 and maturity group I.

Brand	Variety	Relative Maturity	Roundup Ready® (Y or N)	Iron Chlorosis Tolerance (1 = best, 5 = worst)	Source of SCN Resistance
Albert Lea Seed House, 1414 W. Main, Albert Lea, MN 56007, 800-352-5247, seedhouse@alseed.com, www.alseed.com					
Viking	1788NRR	1.7	Y	2.3	PI88788
Viking	1979CBR	1.9	Y	2.0	Peking/PI88788
Viking	1908CNRR	1.9	Y	2.1	PI88788
Crow's Hybrids, 612 E. Danlap St., P.O. Box 157, Kentland, IN 47951, 800-331-7201, www.crowshybrid.com					
Crow's Hybrids	C1415R	1.4	Y	2.0	PI88788
Crow's Hybrids	C1615R	1.6	Y	2.0	PI88788
Crow's Hybrids	C1815R	1.8	Y	1.9	PI88788
Dairyland Seed Co., Inc., 3570 Hwy. H, West Bend, WI 53095, 800-236-0163, www.dairylandseed.com					
Dairyland	0401RR	0.4	Y	2.0	Not Given
Dairyland	0701RR	0.7	Y	2.1	Not Given
Dairyland	0903RR	0.9	Y	2.3	Not Given
Dairyland	091RR	0.9	Y	2.9	Not Given
Dairyland	1301RR	1.3	Y	2.7	Not Given
Dairyland	1302RRSTS	1.3	Y	2.5	Not Given
Dairyland	1500RRSTS	1.5	Y	2.7	Not Given
Dairyland	1601RR	1.6	Y	2.4	Not Given
Dairyland	1701RRSTS	1.7	Y	2.4	Not Given
Dairyland	1850RRSTS	1.9	Y	2.7	Not Given
Dairyland	199RRSTS	1.9	Y	2.3	Not Given
Dyna-Gro Seeds, 104 Harrison, Emmetsburg, IA 50536, 507-327-8136, www.dynagroseed.com					
Dyna-Gro Seeds	32G06	0.6	Y	1.8	PI88788
Dyna-Gro Seeds	39D11	1.1	Y	1.5	PI88788
Dyna-Gro Seeds	36B14	1.4	Y	1.8	PI88788
Dyna-Gro Seeds	32K16	1.6	Y	1.5	PI88788
Dyna-Gro Seeds	33K19	1.9	Y	1.5	PI88788
Excel Brand, 116 E. State, Camp Point, IL 62320, 800-593-7708					
EXCEL	8196NRR/STS	1.8	Y	2.3	PI88788
EXCEL	8203HPRR	1.8	Y	2.6	Hartwig/Peking
Farm Advantage, 1275 Hwy. 69, Belmond, IA 50421, 641-444-3344, farmadv@kalnet.com, www.farmadvantage.com					
Farm Advantage	7084N	0.8	Y	2.2	PI88788
Farm Advantage	7174N	1.7	Y	2.5	PI88788
Farm Advantage	7183N	1.8	Y	2.0	PI88788
Farm Advantage	7194N	1.9	Y	2.3	PI88788
Fontanelle Hybrids, 10961 8th St., Fontanelle, NE 68044-2505, 402-721-1410, spike@fontanelle.com, www.fontanelle.com					
Fontanelle	7703 NRR	1.8	Y	2.9	PI88788
Garst Seed Company, 2369 330th Street, Slater, IA 50244, 888-GO-GARST, garstguy@garstseedco.com, www.garstseed.com					
NK	S08-M8	0.8	Y	3.0	PI88788
NK	S13-K2	1.3	Y	3.0	PI88788
NK	H-1604RR	1.6	Y	3.0	PI88788
NK	S17-A1	1.7	Y	4.0	PI88788
NK	S19-L7	1.9	Y	2.0	PI88788
Great Lakes Hybrids, 9915 W M-21, Ovid, MI 48866, 989-834-2251, www.greatlakeshybrids.com					
Great Lakes Hybrids	GL 1808RR	1.8	Y	2.5	PI88788
Hoegemeyer Hybrids, 1756 Hoegemeyer Rd., Hooper, NE 68031, 800-AG Line-1 (245-4631), askus@hoegemeyer.com, www.TheRightSeed.com					
Hoegemeyer Hybrids	181NRR	1.8	Y	2.5	PI88788

Figure 1. Iowa State University's annual list of SCN-resistant soybean varieties includes company contact information, variety brand and names, relative maturity, herbicide resistance, iron chlorosis tolerance, and source of SCN resistance.**Figure 2. The number of SCN-resistant soybean varieties in late maturity group 0 and maturity groups 1, 2, and 3 for Iowa growers since 1991. The red portion of each bar represents the number of varieties with resistance from a source other than PI88788 resistance.**

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